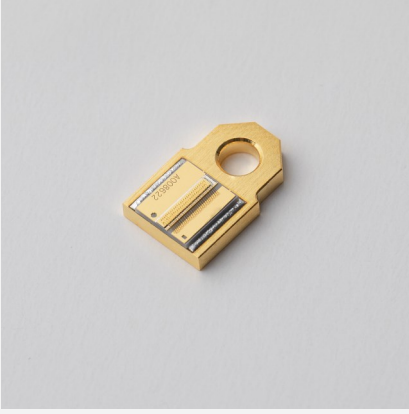
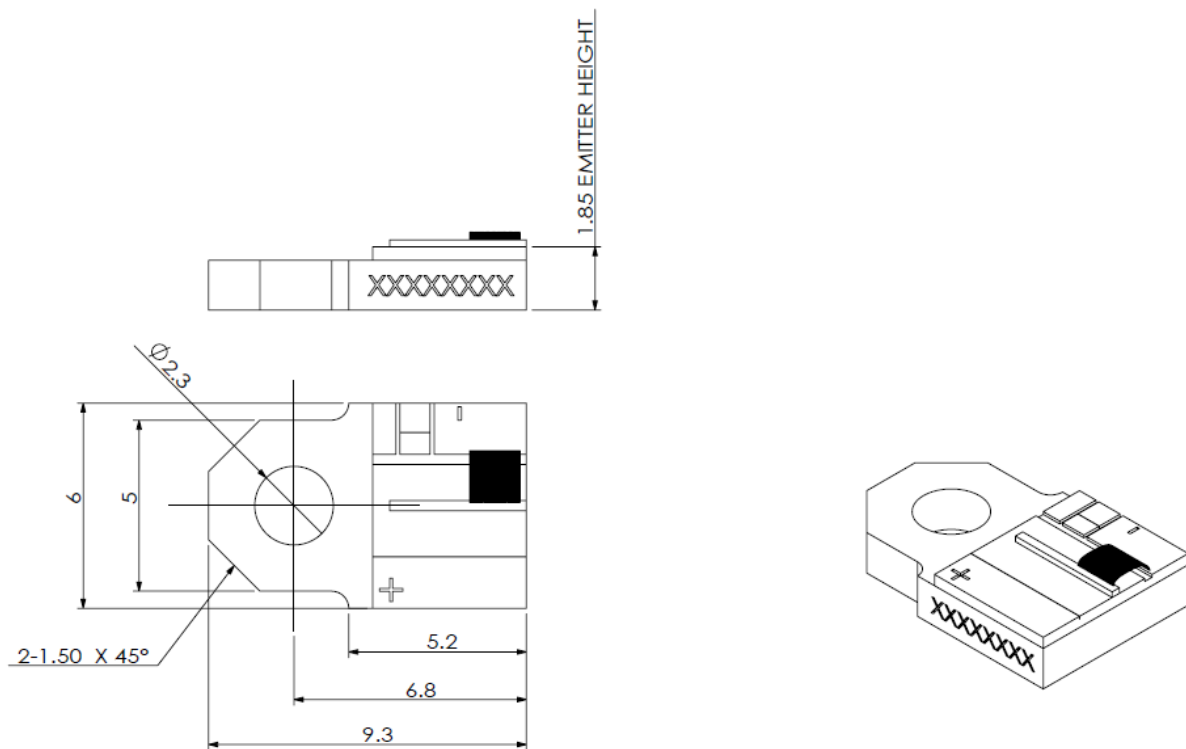


# Single Emitter Diode Laser (CW)

FC01

	<p><b>Features</b></p>	<p><b>Applications</b></p>
	<ul style="list-style-type: none"> <li>• AuSn bonding</li> <li>• Harsh environment use</li> </ul>	<ul style="list-style-type: none"> <li>• Pumping</li> <li>• Medical</li> <li>• Industry</li> <li>• Display</li> <li>• Scientific research</li> </ul>

## Product Dimensions (mm)



**Remark:** The structure drawing is for reference only. Please feel free to contact us for any special requirements.

## Product Specifications

Product Code	OPD000015	OPD000013
Part No. <sup>1</sup>	FL-FC01-5-940-Y	FL-FC01-12-940-Y

Optical Data <sup>2</sup>	Unit	Value	
Centroid Wavelength	nm	940	940
Wavelength Tolerance	nm	± 5	± 5
Emitter Width	µm	200	100
Output Power <sup>3</sup>	W	5	12
Spectral Width FWHM	nm	≤ 4	≤ 4
Spectral Width 90% Energy	nm	≤ 6	≤ 7
Fast Axis Divergence (FWHM)	°	~ 8	~ 8
Slow Axis Divergence (FWHM)	°	8	8
Polarization Mode	-	TE	TE
Wavelength Temp. Coefficient	nm / °C	~ 0.32	~ 0.32

Electrical Data <sup>2</sup>		Value	
Operation Current	A	≤ 5.5	≤ 13
Threshold Current	A	≤ 0.8	≤ 0.85
Operating Voltage	V	≤ 2	≤ 2
Slope Efficiency	W / A	≥ 1	≥ 0.95
Power Conversion Efficiency	%	≥ 45	≥ 45

Thermal Data		Value	
Operating Temperature	°C	15 ~ 30	15 ~ 30
Storage Temperature <sup>4</sup>	°C	-40 ~ 55	-40 ~ 55
Recommended Heatsink Capacity	W	≥ 10	≥ 24

<sup>1</sup> Part No. = Brand Code - Series - Power - Centroid Wavelength (- Collimation).

<sup>2</sup> Data at 25°C temperature, unless otherwise stated.

<sup>3</sup> Lifetime reduced if overused under nominal operating condition.

<sup>4</sup> A non-condensing environment is required for storage and operation below ambient dew point.

